RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/729,795

Source: IPWI6

Date Processed by STIC: 4/16/07

ENTERED

```
        RAW SEQUENCE LISTING                    DATE: 04/16/2007
        PATENT APPLICATION:  US/10/729,795      TIME: 19:00:17

        Input Set :  A:\011823012510_ST25.txt
        Output Set: N:\CRF4\04162007\J729795.raw

 3  <110> APPLICANT: Walters, Ian
 5  <120> TITLE OF INVENTION: METHODS OF TREATMENT OF ULCERATIVE COLITIS WITH ANTI-CD3
 6        ANTIBODIES
 8  <130> FILE REFERENCE: 011823-012510US
10  <140> CURRENT APPLICATION NUMBER: US 10/729,795
11  <141> CURRENT FILING DATE: 2003-12-05
13  <150> PRIOR APPLICATION NUMBER: US 60/431,649
14  <151> PRIOR FILING DATE: 2002-12-05
16  <150> PRIOR APPLICATION NUMBER: US 60/450,183
17  <151> PRIOR FILING DATE: 2003-02-25
19  <160> NUMBER OF SEQ ID NOS: 5
21  <170> SOFTWARE: PatentIn version 3.4
23  <210> SEQ ID NO: 1
24  <211> LENGTH: 126
25  <212> TYPE: PRT
26  <213> ORGANISM: Artificial
28  <220> FEATURE:
29  <223> OTHER INFORMATION: Humanized mouse M291 antibody light chain variable region
31  <400> SEQUENCE: 1
33  Met Glu Thr Asp Thr Leu Leu Leu Trp Val Leu Leu Leu Trp Val Pro
34  1               5                   10                  15
37  Gly Ser Thr Gly Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser
38              20                  25                  30
41  Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Ser Ser
42          35                  40                  45
45  Val Ser Tyr Met Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
46      50                  55                  60
49  Arg Leu Ile Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro Ser Arg
50  65                  70                  75                  80
53  Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser
54              85                  90                  95
57  Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Trp Ser Ser
58          100                 105                 110
61  Asn Pro Pro Thr Phe Gly Gly Gly Thr Lys Val Glu Ile Lys
62          115                 120                 125
65  <210> SEQ ID NO: 2
66  <211> LENGTH: 139
67  <212> TYPE: PRT
68  <213> ORGANISM: Artificial
70  <220> FEATURE:
71  <223> OTHER INFORMATION: Humanized mouse M291 antibody heavy chain variable region
73  <400> SEQUENCE: 2
75  Met Gly Trp Ser Trp Ile Phe Leu Phe Leu Leu Ser Gly Thr Ala Gly
```

Input Set : A:\011823012510_ST25.txt
Output Set: N:\CRF4\04162007\J729795.raw

```
76  1                 5                   10                  15
79  Val His Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
80                   20                  25                  30
83  Pro Gly Ala Ser Val Lys Val Ser Cys Lys Ala Ser Gly Tyr Thr Phe
84                   35                  40                  45
87  Ile Ser Tyr Thr Met His Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
88          50                  55                  60
91  Glu Trp Met Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr His Tyr Asn
92  65                  70                  75                  80
95  Gln Lys Leu Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ala Ser
96                   85                  90                  95
99  Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val
100                 100                 105                 110
103 Tyr Tyr Cys Ala Arg Ser Ala Tyr Tyr Asp Tyr Asp Gly Phe Ala Tyr
104         115                 120                 125
107 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
108     130                 135
```

111 <210> SEQ ID NO: 3
112 <211> LENGTH: 326
113 <212> TYPE: PRT
114 <213> ORGANISM: Artificial
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Heavy chain constant region of IgG2 mutant 3
119 <400> SEQUENCE: 3

```
121 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Cys Ser Arg
122 1                 5                   10                  15
125 Ser Thr Ser Glu Ser Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr
126                 20                  25                  30
129 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser
130         35                  40                  45
133 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser
134     50                  55                  60
137 Leu Ser Ser Val Val Thr Val Pro Ser Ser Asn Phe Gly Thr Gln Thr
138 65                  70                  75                  80
141 Tyr Thr Cys Asn Val Asp His Lys Pro Ser Asn Thr Lys Val Asp Lys
142                 85                  90                  95
145 Thr Val Glu Arg Lys Cys Cys Val Glu Cys Pro Pro Cys Pro Ala Pro
146                 100                 105                 110
149 Pro Ala Ala Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
150         115                 120                 125
153 Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
154     130                 135                 140
157 Val Ser His Glu Asp Pro Glu Val Gln Phe Asn Trp Tyr Val Asp Gly
158 145                 150                 155                 160
161 Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Phe Asn
162                 165                 170                 175
165 Ser Thr Phe Arg Val Val Ser Val Leu Thr Val Val His Gln Asp Trp
166                 180                 185                 190
169 Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Gly Leu Pro
```

RAW SEQUENCE LISTING   DATE: 04/16/2007
PATENT APPLICATION: US/10/729,795   TIME: 19:00:17

        Input Set : A:\011823012510_ST25.txt
        Output Set: N:\CRF4\04162007\J729795.raw

170   195   200   205
173 Ala Pro Ile Glu Lys Thr Ile Ser Lys Thr Lys Gly Gln Pro Arg Glu
174   210   215   220
177 Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
178 225   230   235   240
181 Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
182   245   250   255
185 Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
186   260   265   270
189 Thr Pro Pro Met Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
190   275   280   285
193 Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
194   290   295   300
197 Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
198 305   310   315   320
201 Ser Leu Ser Pro Ser Lys
202   325
205 <210> SEQ ID NO: 4
206 <211> LENGTH: 128
207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Mouse M291 antibody light chain variable region
213 <400> SEQUENCE: 4
215 Met Asp Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
216 1   5   10   15
219 Ala Ile Ile Ser Arg Gly Gln Ile Val Leu Thr Gln Ser Pro Ala Ile
220   20   25   30
223 Met Ser Ala Ser Pro Gly Glu Lys Val Thr Met Thr Cys Ser Ala Ser
224   35   40   45
227 Ser Ser Val Ser Tyr Met Asn Trp Tyr Lys Gln Lys Ser Gly Thr Ser
228   50   55   60
231 Pro Lys Arg Trp Thr Tyr Asp Thr Ser Lys Leu Ala Ser Gly Val Pro
232 65   70   75   80
235 Ala Arg Phe Ser Gly Ser Gly Ser Gly Thr Ser Tyr Ser Leu Thr Ile
236   85   90   95
239 Ser Ser Met Glu Ala Glu Asp Ala Ala Thr Tyr Tyr Cys Gln Gln Trp
240   100   105   110
243 Ser Ser Asn Pro Pro Thr Phe Gly Ser Gly Thr Lys Leu Glu Ile Lys
244   115   120   125
247 <210> SEQ ID NO: 5
248 <211> LENGTH: 139
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Mouse M291 antibody heavy chain variable region
255 <400> SEQUENCE: 5
257 Met Glu Arg His Trp Ile Phe Leu Leu Leu Leu Ser Val Thr Ala Gly
258 1   5   10   15

```
261 Val His Ser Gln Val Gln Leu Gln Gln Ser Gly Ala Glu Leu Ala Arg
262             20                  25                  30
265 Pro Gly Ala Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe
266         35                  40                  45
269 Ile Ser Tyr Thr Met His Trp Val Lys Gln Arg Pro Gly Gln Gly Leu
270     50                  55                  60
273 Glu Trp Ile Gly Tyr Ile Asn Pro Arg Ser Gly Tyr Thr His Tyr Asn
274 65                  70                  75                  80
277 Gln Lys Leu Lys Asp Lys Ala Thr Leu Thr Ala Asp Lys Ser Ser Ser
278             85                  90                  95
281 Ser Ala Tyr Met Gln Leu Ser Ser Leu Thr Ser Glu Asp Ser Ala Val
282         100                 105                 110
285 Tyr Tyr Cys Ala Arg Ser Ala Tyr Tyr Asp Tyr Asp Gly Phe Ala Tyr
286         115                 120                 125
289 Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
290     130                 135
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 04/16/2007
PATENT APPLICATION: US/10/729,795   TIME: 19:00:18

Input Set : A:\011823012510_ST25.txt
Output Set: N:\CRF4\04162007\J729795.raw

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5

VERIFICATION SUMMARY   DATE: 04/16/2007
PATENT APPLICATION: **US/10/729,795**   TIME: 19:00:18

Input Set : **A:\011823012510_ST25.txt**
Output Set: **N:\CRF4\04162007\J729795.raw**